

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0921]

SEPTEMBER 2021
(FEBRUARY 2021 EXAM SESSION)

Sub. Code: 4259

B. PHARMACY DEGREE EXAMINATION
SECOND YEAR – (NON-SEMESTER)
PAPER IV – PHARMACEUTICAL TECHNOLOGY

Q.P. Code: 564259

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe the principle, construction, working, application, merits and demerits of Freeze drying.
2. Classify Evaporators. Describe construction and working of a film evaporator.

II. Write notes on:

(8 x 5 = 40)

1. Swenson walker crystallizer.
2. Stainless steel as materials of plant construction.
3. List out types of Valves and explain any one.
4. Explain Raoult's law of distillation.
5. Solubility curve.
6. Sources of Heat.
7. Enumerate mechanism involved in size reduction with suitable examples.
8. Write a note on chemical hazards.

III. Short answers on:

(10 x 2 = 20)

1. Classify dryers.
2. Define Crystal.
3. Write advantages of glass as plant construction.
4. Triple Roller mill mechanism.
5. Filter media.
6. Steam distillation.
7. Reynolds number.
8. Define heat transfer.
9. Mechanisms of liquid mixing.
10. Define Centrifugation.
